

Notice of Allowability	Application No.	Applicant(s)		
	09/661,306	ABE ET AL.		
	Examiner	Art Unit		
	Kevin M. Burd	2631		
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate communates. This application is su	this application. If not includ nication will be mailed in due	led course. THIS	
1. \boxtimes This communication is responsive to <i>the amendment filed</i>	<u>6/16/2005</u> .			
2. The allowed claim(s) is/are 20-37.				
 3. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application	No	ation from the	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a ENT of this application.	a reply complying with the re	quirements	
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXAMes reason(s) why the oath or o	MINER'S AMENDMENT or Neclaration is deficient.	NOTICE OF	
 5. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the deposit of the deposit	on's Patent Drawing Review Amendment / Comment or in S4(c)) should be written on the ne header according to 37 CFR sit of BIOLOGICAL MATER	n the Office action of drawings in the front (not the 1.121(d). RIAL must be submitted		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Info	rmal Patent Application (PT	O-152)	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🔲 Interview Sur	w Summary (PTO-413),		
Paper No./N 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), 7. ☐ Examiner's A		lail Date mendment/Comment		
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's S	8. X Examiner's Statement of Reasons for Allowance		
	9. Other	9. Other		

Response to Arguments

Applicant's arguments, see pages 11-20 of the remarks filed 6/16/2005, with respect to claims 28-37 have been fully considered and are persuasive. The rejections of these claims have been withdrawn.

Allowable Subject Matter

Claims 20-37 are allowed.

The following is an examiner's statement of reasons for allowance: Evenstad (US 5,453,834) discloses a receiver that generates a sample timing and shifts the phase of the sample timing by 180 degrees as shown in figure 8. However, Evenstad does not disclose all of the limitations stated in claims 20-27 and 33. Synder et al (US 5,563,596) discloses the receiver shown in figure 1. Synder discloses sampling the received signal in elements 18 and 30. A clock 24 is provided for sampling. However, Snyder does not disclose shifting the phase of the clock signal by 180 degrees as claimed in claims 20-27 and 33. Snyder discloses shifting the received signal by 180 degrees and then sampling the shifted received signal. Powell, II et al (US 6,130,920) discloses the receiver of figure 2. The receiver samples the received signal and determines a correlation between the received signal and a known sequence in a series of correlators (31-34). These correlators estimate a first timing of the received signal. A MAX INDEX value is calculated and used to select the maximum correlation value and adjusts the symbol's synchronization clock but Powell does not disclose all the limitations recited in

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claims 28-30, 34, 36 and 37. Yamamoto (US 5,369,668) discloses a receiver shown in figure 1 comprising correlators that update tap coefficients to remove ISI. However, the ISI canceller does not provide a signal to synchronize the incoming signal with the receiver as claimed in claims 31, 32 and 35.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin M. Burd whose telephone number is (571) 272-3008. The examiner can normally be reached on Monday - Friday 9 am - 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad Ghayour can be reached on (571) 272-3021. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kevin M. Burd 8/30/2005 KEVIN BURD PRIMARY EXAMINER